

BISTABLE MICROMIRROR WITH CONTACTLESS STOPS

ABSTRACT OF THE DISCLOSURE

A microstructure for steering light is provided that mitigates stiction. A
5 substrate is provided on which a structural linkage is connected to support a structural film.
The structural film includes a reflective coating. A hold electrode is connected with the
substrate at a position laterally beyond an orthogonal projection of the structural film on the
substrate. It is configured to hold the structural film electrostatically in a tilted position with
10 respect to the substrate upon application of a potential difference between the structural film
and the hold electrode. Because of its positioning with respect to the structural film, it is
ensured that the structural film is not in contact with the substrate when the structural film is
being held by the hold electrode.